

Qiya Yin

Chinese Citizenship
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Education.

Carnegie Mellon University

| Bachelor of Computer Science and Arts — 2020
in Computer Science & Music Technology
| Minor in Piano Performance
| GPA: 3.89
| Dean's List for 4 semesters

Coursework.

15-210 Parallel and Sequential Data Structure and Algorithm
15-213 Introduction to Computer Systems
15-251 Great Ideas in Theoretical Computer Science
11-411 Natural Language Processing
18-090 Multimedia Signal Processing
10-615 Machine Learning and Art
05-499 Human and Computer Interaction: Accessibility
15-322 Introduction to Computer Music

Community Service.

Teacher/Data Analyst

| Assemble — June-Aug 2018
Lead workshops that taught arts and technology to children of age 4-12 at Assemble, a Pittsburgh non-profit community space dedicated to fostering learning and creativity. Conducted data analysis of past attendees.

Honors & Awards.

International Computer Music Conference Publication
Frank-Ratchye Fund for Art @ the Frontier Grant
"Physics Bowl" 6th Place, Global
USAYPT(Physics) 6th Place
AP Scholar with Distinction
ATCL Piano Recital Diploma with Distinction
HK-Asia International Piano Open - 1st place

Technical Experiences.

Languages

C • Python • JavaScript • HTML5 / CSS • SML • Java • C#

Skills

Max/MSP • Framer • Nyquist • LaTeX

Research Publication

| Duo-Synth — Oct 2017-Present

A machine learning research that explores real-time AI algorithmic music generation based on multi-user motion capture.

- Published in August 2018 at the International Computer Music Conference
- Single layer convolutional network
- Python, Max/MSP, JavaScript

Teaching Assistant — Aug 2018-Dec 2018

- Introduction to Computer Music (15-322/622) - Grader
- Multimedia Signal Processing (18-090) - Lecturer/Grader

VR Researcher/Sound Engineer (Paid)

| VR Home, Entertainment Technology Center

— June-Aug 2018

Funded by Verizon, a research of multi-user VR home spaces, aiming to make VR experiences comfortable and authentic.

- Designed sound for 4 spaces that are adapted by the current Abode project at Entertainment Technology Center

Front-End Educational Web-App Developer (Paid)

| The Zoom City Project, CMU — Sep-Dec 2017

Built 2 interactive children's e-books to teach children English.

Implemented speech recognition with Web Speech API to collect sound data from young learners.

- Human computer interaction design
- JavaScript

Project Coordinator (Unpaid)

| MST Education Tech Ltd., Shenzhen, China — 2014-2016

Designed music education Android applications, including Kaixin Metronome, to encourage children to learn music.

- Apps released in Android market in early 2016
- Java

Extracurricular.

Music Performer/Experience Designer

| The Exploded Ensemble, CMU — Jan 2017-Dec 2018

One of the founding members, I performed with keyboard and voice, designed lighting and visuals for stadium-sized performance spaces, composed original music.

Stage Manager

| Scotch'n'Soda Theatre, CMU — Jan-April 2017

Stage-managed the largest annual carnival theatre.

Certified CRLA Level 1 Peer Tutor (Paid)

| CMU Academic Development — Feb 2017-May 2018

Tutored 4 Computer Science courses: 122, 150, 213, 251